updated 7/18/07

09/814,315

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	("(webadjserv$4)with(useradj(interfaceorGUIorbrows$3))").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/18 10:31
L2	0	(webadjserv$4)with(useradj(interfaceorGUIorbrows$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/18 10:31
L3	3945	(web adj serv$4) with (user adj (interface or GUI or brows$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/18 10:32
L4	1	l3 and ((database adj serv$4) with (business adj (process or method)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/18 10:33
L5	43	l3 and (database adj serv$4) and (business adj (process or method))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/18 10:34
L6	1	l4 and ((identi$3 or organization or compan$3 or utilit$4) with model)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/18 10:36
L7	1	l4 and transaction	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/18 10:38

EAST Search History

L8	0	l4 and (work$1flow or (work adj assignment))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/18 10:37
L9	1	l4 and (work$1flow or (work adj assignment) or job)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/18 10:38
L10	0	l4 and (work$1flow or (work adj assignment) or (job with list))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/18 10:38
L11	1	l4 and (task or transaction or work or assignment or process)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/18 10:40
L12	3642	l3 and (task or transaction or work or assignment or process)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/18 10:40
L13	718	l3 and (list with (task or transaction or work or assignment or process))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/18 10:41
L14	44	l3 and (list with (task or transaction or work or assignment or process) with (model or architecture or module))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/18 10:41

EAST Search History

L15	29	l3 and (list with (task or transaction or work or assignment or process) with (model or architecture or module)) and (entity or organization)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/18 10:42
L16	27	l3 and (list with (task or transaction or work or assignment or process) with (model or architecture or module)) and (entity or organization) and database	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/18 10:42
L17	16	l3 and (list with (task or transaction or work or assignment or process) with (model or architecture or module)) and (entity or organization) and (database adj serv$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/18 10:43
L18	14	l3 and (list with (task or transaction or work or assignment or process) with (model or architecture or module)) and (entity or organization) and (database adj serv$4) and business	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/18 10:43
L19	7	l3 and (list with (task or transaction or work or assignment or process) with (model or architecture or module)) and (entity or organization) and (database adj serv$4) and (business with (process or method))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/18 10:44
L20	2	l3 and (list with (task or transaction or work or assignment or process) with (model or architecture or module)) and (entity or organization) and (database adj serv$4) and (business with (process or method)) and @ad < "20000320"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/18 10:44

EAST Search History

09/814315

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	("(webadjserver)and(database)and(entityadjrelationadjmodel)andtransactionandtask").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/25 17:57
L2	1	(web adj server)and(database)and(entity adj relation adj model)and transaction and task	USPAT	OR	OFF	2007/06/25 17:57
L3	0	"20040225640"	USPAT	OR	OFF	2007/06/25 17:57
L4	1	"20040225640"	US-PGPUB; USPAT	OR	OFF	2007/06/25 17:57
L5	2	"20040002978"	US-PGPUB; USPAT	OR	OFF	2007/06/25 17:57
L6	1	"20030204481"	US-PGPUB; USPAT	OR	OFF	2007/06/25 17:57
L7	2	"20040002962"	US-PGPUB; USPAT	OR	OFF	2007/06/25 17:57
L8	6	vertical adj market same parameters	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/06/25 17:57
L9	313	vertical adj market	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/06/25 17:57
L10	85	(business adj process) and (entity near2 model) and database and market and transaction and architecture	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/06/25 17:57
L11	4	L10 and 707/100.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/06/25 17:57
L12	2	L10 and 707/3.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/06/25 17:57
L13	11	L10 and 705/1.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/06/25 17:57
L14	0	L10 and 705/30.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/06/25 17:57

EAST Search History

L15	1	L10 and 705/35.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/06/25 17:57
L16	1	L10 and 705/5.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/06/25 17:57
L17	5	L10 and 705/8.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/06/25 17:57
L18	4	707/100.ccls. and (business adj process) and (entity near2 model) and database and market and transaction and architecture	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/06/25 17:57
L19	2	707/3.ccls. and (business adj process) and (entity near2 model) and database and market and transaction and architecture	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/06/25 17:57
L20	0	704/30.ccls. and (business adj process) and (entity near2 model) and database and market and transaction and architecture	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/06/25 17:57
L21	0	705/30.ccls. and (business adj process) and (entity near2 model) and database and market and transaction and architecture	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/06/25 17:57
L22	15	705/30.ccls. and (business adj process) and database and market and transaction and architecture	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/06/25 17:57
L23	0	incorpated near1 reference near2 foreing	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/25 17:57
L24	0	incorporated near1 reference near2 foreing	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/25 17:57
L25	102	incorporated near2 reference near2 foreign	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/25 17:57

EAST Search History

L26	569	incorporated near2 reference near2 european	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/25 17:57
L27	0	707/103.ccls. and (business adj process) and database and market and transaction and architecture	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/06/25 17:57
L28	0	707/103.R.ccls. and (business adj process) and database and market and transaction and architecture	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/06/25 17:57
L29	18	707/103$.ccls. and (entity near2 model) and database and transaction and architecture	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/06/25 17:57
L30	0	707/103.ccls. and (entity near2 model) and database and transaction and architecture	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/06/25 17:57
L31	0	707/103.ccls. and (entity near2 model) and database and market and transaction and architecture	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/06/25 17:57
L32	0	707/103.R.ccls. and (entity near2 model) and database and market and transaction and architecture	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/06/25 17:57
L33	0	707/103.$.ccls. and (business adj process) and database and market and transaction and architecture	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/06/25 17:57
L34	85	(business adj process) and (entity near2 model) and database and market and transaction and architecture	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/06/25 17:57
L35	8	L34 and 707/10.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/06/25 17:57
L36	0	("(webadjserver)and(database)and(entityadjrelationadjmodel)andtransactionandtask").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/25 17:57
L37	0	"20040225640"	USPAT	OR	OFF	2007/06/25 17:57

EAST Search History

L38	4	L34 and 707/100.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/06/25 17:57
L39	2	L34 and 707/3.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/06/25 17:57
L40	11	L34 and 705/1.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/06/25 17:57
L41	0	L34 and 705/30.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/06/25 17:57
L42	1	L34 and 705/35.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/06/25 17:57
L43	1	L34 and 705/5.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/06/25 17:57
L44	5	L34 and 705/8.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/06/25 17:57
L45	0	707/103.ccls. and (entity near2 model) and database and transaction and architecture	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/06/25 17:57
L46	0	704/30.ccls. and (business adj process) and (entity near2 model) and database and market and transaction and architecture	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/06/25 17:57
L47	0	705/30.ccls. and (business adj process) and (entity near2 model) and database and market and transaction and architecture	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/06/25 17:57
L48	0	incorpated near1 reference near2 foreing	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/25 17:57

EAST Search History

L49	0	incorporated near1 reference near2 foreing	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/25 17:57
L50	0	707/103.ccls. and (business adj process) and database and market and transaction and architecture	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/06/25 17:57
L51	0	707/103.R.ccls. and (business adj process) and database and market and transaction and architecture	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/06/25 17:57
L52	1	"20040225640"	US-PGPUB; USPAT	OR	OFF	2007/06/25 17:57
L53	0	707/103.ccls. and (entity near2 model) and database and market and transaction and architecture	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/06/25 17:57
L54	0	707/103.R.ccls. and (entity near2 model) and database and market and transaction and architecture	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/06/25 17:57
L55	0	707/103.$.ccls. and (business adj process) and database and market and transaction and architecture	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/06/25 17:57
L56	1	(web adj server)and(database)and(entity adj relation adj model)and transaction and task	USPAT	OR	OFF	2007/06/25 17:57
L57	1	"20030204481"	US-PGPUB; USPAT	OR	OFF	2007/06/25 17:57
L58	2	"20040002978"	US-PGPUB; USPAT	OR	OFF	2007/06/25 17:57
L59	2	"20040002962"	US-PGPUB; USPAT	OR	OFF	2007/06/25 17:57
L60	6	vertical adj market same parameters	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/06/25 17:57
L61	85	(business adj process) and (entity near2 model) and database and market and transaction and architecture	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/06/25 17:57

EAST Search History

L62	4	707/100.ccls. and (business adj process) and (entity near2 model) and database and market and transaction and architecture	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/06/25 17:57
L63	2	707/3.ccls. and (business adj process) and (entity near2 model) and database and market and transaction and architecture	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/06/25 17:57
L64	15	705/30.ccls. and (business adj process) and database and market and transaction and architecture	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/06/25 17:57
L65	18	707/103$.ccls. and (entity near2 model) and database and transaction and architecture	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/06/25 17:57
L66	102	incorporated near2 reference near2 foreign	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/25 17:57
L67	313	vertical adj market	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/06/25 17:57
L68	569	incorporated near2 reference near2 european	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/25 17:57
L69	7	L34 and 705/7.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/06/25 17:57
L70	7	707/10.ccls. and @ad > "20070101"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/25 17:57
L71	8	707/100.ccls. and @ad > "20070101"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/25 17:57

EAST Search History

L72	3	705/8.ccls. and @ad > "20070101"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/25 17:57
L73	0	705/7.ccls. and @ad > "20070101"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/25 17:57
L74	18	705/7.ccls. and @ad > "20061001"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/25 17:57
S1	0	("(webadjserver)and(database)and(entityadjrelationadjmodel)andtransactionandtask").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/29 17:18
S2	1	(web adj server)and(database)and(entity adj relation adj model)and transaction and task	USPAT	OR	OFF	2005/02/12 09:42
S3	0	"20040225640"	USPAT	OR	OFF	2005/02/12 09:42
S4	1	"20040225640"	US-PGPUB; USPAT	OR	OFF	2005/02/12 09:43
S5	1	"20040002978"	US-PGPUB; USPAT	OR	OFF	2005/02/12 09:46
S6	1	"20030204481"	US-PGPUB; USPAT	OR	OFF	2005/02/12 09:45
S7	1	"20040002962"	US-PGPUB; USPAT	OR	OFF	2005/02/12 09:46
S8	192	vertical adj market	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/02/16 09:57
S9	2	vertical adj market same parameters	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/02/16 19:20

EAST Search History

S10	68	(business adj process) and (entity near2 model) and database and market and transaction and architecture	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2006/06/14 14:40
S11	3	S10 and 707/100.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/05/29 17:14
S12	2	S10 and 707/3.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/02/16 19:33
S13	10	S10 and 705/1.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/02/16 19:33
S14	0	S10 and 705/30.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/02/16 19:33
S15	1	S10 and 705/35.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/02/16 19:33
S16	1	S10 and 705/5.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/02/16 19:33
S17	4	S10 and 705/8.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/02/16 19:33
S18	3	707/100.ccls. and (business adj process) and (entity near2 model) and database and market and transaction and architecture	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2006/06/13 16:21
S19	2	707/3.ccls. and (business adj process) and (entity near2 model) and database and market and transaction and architecture	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2006/06/13 16:21
S20	0	704/30.ccls. and (business adj process) and (entity near2 model) and database and market and transaction and architecture	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2006/06/13 16:22
S21	0	705/30.ccls. and (business adj process) and (entity near2 model) and database and market and transaction and architecture	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2006/06/13 16:22

EAST Search History

S22	12	705/30.ccls. and (business adj process) and database and market and transaction and architecture	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2006/06/14 14:39
S23	0	incorpated near1 reference near2 foreing	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/14 10:18
S24	0	incorporated near1 reference near2 foreing	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/14 10:18
S25	92	incorporated near2 reference near2 foreign	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/14 10:21
S26	499	incorporated near2 reference near2 european	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/14 10:21
S27	0	707/103.R.ccls. and (business adj process) and database and market and transaction and architecture	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2006/06/14 14:39
S28	0	707/103.ccls. and (business adj process) and database and market and transaction and architecture	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2006/06/14 14:40
S29	0	707/103.$.ccls. and (business adj process) and database and market and transaction and architecture	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2006/06/14 14:40
S30	0	707/103.R.ccls. and (entity near2 model) and database and market and transaction and architecture	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2006/06/14 14:40
S31	0	707/103.ccls. and (entity near2 model) and database and market and transaction and architecture	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2006/06/14 14:41
S32	0	707/103.ccls. and (entity near2 model) and database and transaction and architecture	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2006/06/14 14:41

EAST Search History

S33	14	707/103$.ccls. and (entity near2 model) and database and transaction and architecture	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2006/06/14 14:41
S34	85	(business adj process) and (entity near2 model) and database and market and transaction and architecture	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/05/29 17:14
S35	8	S34 and 707/10.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/05/29 17:14
S36	0	("(webadjserver)and(database)and(entityadjrelationadjmodel)andtransactionandtask").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/29 17:15
S37	1	(web adj server)and(database)and(entity adj relation adj model)and transaction and task	USPAT	OR	OFF	2007/05/29 17:15
S38	0	"20040225640"	USPAT	OR	OFF	2007/05/29 17:15
S39	1	"20040225640"	US-PGPUB; USPAT	OR	OFF	2007/05/29 17:15
S40	2	"20040002978"	US-PGPUB; USPAT	OR	OFF	2007/05/29 17:15
S41	1	"20030204481"	US-PGPUB; USPAT	OR	OFF	2007/05/29 17:15
S42	2	"20040002962"	US-PGPUB; USPAT	OR	OFF	2007/05/29 17:15
S43	6	vertical adj market same parameters	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/05/29 17:15
S44	310	vertical adj market	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/05/29 17:15
S45	85	(business adj process) and (entity near2 model) and database and market and transaction and architecture	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/05/29 17:15
S46	4	S34 and 707/100.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/05/29 17:15

EAST Search History

S47	2	S34 and 707/3.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/05/29 17:15
S48	11	S34 and 705/1.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/05/29 17:15
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S50	1	S34 and 705/35.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/05/29 17:15
S51	1	S34 and 705/5.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/05/29 17:15
S52	5	S34 and 705/8.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/05/29 17:16
S53	4	707/100.ccls. and (business adj process) and (entity near2 model) and database and market and transaction and architecture	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/05/29 17:15
S54	2	707/3.ccls. and (business adj process) and (entity near2 model) and database and market and transaction and architecture	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/05/29 17:15
S55	0	704/30.ccls. and (business adj process) and (entity near2 model) and database and market and transaction and architecture	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/05/29 17:15
S56	0	705/30.ccls. and (business adj process) and (entity near2 model) and database and market and transaction and architecture	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/05/29 17:15
S57	15	705/30.ccls. and (business adj process) and database and market and transaction and architecture	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/05/29 17:15
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S59	0	incorporated near1 reference near2 foreing	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/29 17:15
S60	102	incorporated near2 reference near2 foreign	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/29 17:15
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S62	0	707/103.ccls. and (business adj process) and database and market and transaction and architecture	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/05/29 17:15
S63	0	707/103.R.ccls. and (business adj process) and database and market and transaction and architecture	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/05/29 17:15
S64	18	707/103$.ccls. and (entity near2 model) and database and transaction and architecture	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/05/29 17:15
S65	0	707/103.ccls. and (entity near2 model) and database and transaction and architecture	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/05/29 17:15
S66	0	707/103.ccls. and (entity near2 model) and database and market and transaction and architecture	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/05/29 17:15
S67	0	707/103.R.ccls. and (entity near2 model) and database and market and transaction and architecture	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/05/29 17:15
S68	0	707/103.$.ccls. and (business adj process) and database and market and transaction and architecture	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/05/29 17:15
S69	7	S34 and 705/7.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/05/29 17:16

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S70	3	707/10.ccls. and @ad > "20070101"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/29 17:19
S71	3	707/100.ccls. and @ad > "20070101"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/29 17:19
S72	1	705/8.ccls. and @ad > "20070101"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/29 17:20
S73	0	705/7.ccls. and @ad > "20070101"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/29 17:20
S74	9	705/7.ccls. and @ad > "20061001"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/29 17:20

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Relevance scale

1 Process modeling in Web applications

Marco Brambilla, Stefano Ceri, Piero Fraternali, Ioana Manolescu

October 2006 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 15 Issue 4

Publisher: ACM Press

Full text available: pdf(1.17 MB) Additional Information: full citation, abstract, references, index terms

While Web applications evolve towards ubiquitous, enterprise-wide or multienterprise information systems, they face new requirements, such as the capability of managing complex processes spanning multiple users and organizations, by interconnecting software provided by different organizations. Significant efforts are currently being invested in application integration, to support the composition of business processes of different companies, so as to create complex, multiparty business scenarios. ...

Keywords: Web applications, Web engineering, conceptual modeling, worfklows

2 A taxonomy of Data Grids for distributed data sharing, management, and processing

Srikumar Venugopal, Rajkumar Buyya, Kotagiri Ramamohanarao

June 2006 **ACM Computing Surveys (CSUR)**, Volume 38 Issue 1

Publisher: ACM Press

Full text available: pdf(1.70 MB) Additional Information: full citation, abstract, references, index terms

Data Grids have been adopted as the next generation platform by many scientific communities that need to share, access, transport, process, and manage large data collections distributed worldwide. They combine high-end computing technologies with high-performance networking and wide-area storage management techniques. In this article, we discuss the key concepts behind Data Grids and compare them with other data sharing and distribution paradigms such as content delivery networks, peer-to-peer n ...

Keywords: Grid computing, data-intensive applications, replica management, virtual organizations

3 Object orientation in multidatabase systems

Evaggelia Pitoura, Omran Bukhres, Ahmed Elmagarmid

June 1995

ACM Computing Surveys (CSUR), Volume 27 Issue 2
Publisher: ACM Press

Full text available: pdf(4.85 MB) Additional Information: full citation, abstract, references, citings, index terms, review

A multidatabase system (MDBS) is a confederation of preexisting distributed, heterogeneous, and autonomous database systems. There has been a recent proliferation of research suggesting the application of object-oriented techniques to facilitate the complex task of designing and implementing MDBSs. Although this approach seems promising, the lack of a general framework impedes any further development. The goal of this paper is to provide a concrete analysis and categorization of the various ...

Keywords: distributed objects, federated databases, integration, multidatabases, views

4 A model of OASIS role-based access control and its support for active security

Jean Bacon, Ken Moody, Walt Yao
November 2002 **ACM Transactions on Information and System Security (TISSEC)**, Volume 5 Issue 4
Publisher: ACM Press

Full text available: pdf(352.06 KB) Additional Information: full citation, abstract, references, citings, index terms

OASIS is a role-based access control architecture for achieving secure interoperation of services in an open, distributed environment. The aim of OASIS is to allow autonomous management domains to specify their own access control policies and to interoperate subject to service level agreements (SLAs). Services define roles and implement formally specified policy to control role activation and service use; users must present the required credentials, in an appropriate context, in order to activat ...

Keywords: Certificates, OASIS, RBAC, distributed systems, policy, role-based access control, service-level agreements

5 An architecture for WWW-based hypercode environments

Gail E. Kaiser, Stephen E. Dossick, Wenyu Jiang, Jack Jingshuang Yang
May 1997 **Proceedings of the 19th international conference on Software engineering ICSE '97**
Publisher: ACM Press
Full text available: pdf(1.84 MB) Additional Information: full citation, references, citings, index terms

6 Providing transactional properties for migrating workflows

October 2004 **Mobile Networks and Applications**, Volume 9 Issue 5
Publisher: Kluwer Academic Publishers
Full text available: pdf(138.89 KB) Additional Information: full citation, abstract, references, index terms

Current workflow management systems have several limitations that need to be addressed by the research community. This paper deals with two of them: the lack of flexibility necessary in a changing business environment, and the lack of transactional guarantees for workflow applications.

To handle the dynamic character of current business environments and processes, we have proposed the Migrating Workflow Model. A migrating workflow transfers its code (specification) and its execution st ...

Keywords: migrating workflows, mobile environment, transactions, workflows

7 Middleware for mobility: SyD: a middleware testbed for collaborative applications over small heterogeneous devices and data stores

Sushil K. Prasad, Vijay Madisetti, Shamkant B. Navathe, Raj Sunderraman, Erdogan Dogdu, Anu Bourgeois, Michael Weeks, Bing Liu, Janaka Balasooriya, Arthi Hariharan, Wanxia Xie, Praveen Madiraju, Srilaxmi Malladi, Raghupathy Sivakumar, Alex Zelikovsky, Yanqing Zhang, Yi Pan, Saied Belkasim

October 2004 **Proceedings of the 5th ACM/IFIP/USENIX international conference on Middleware Middleware '04**

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(441.56 KB) Additional Information: full citation, abstract, references

Developing a collaborative application running on a collection of heterogeneous, possibly mobile, devices, each potentially hosting data stores, using existing middleware technologies such as JXTA, BREW, compact .NET and J2ME requires too many ad-hoc techniques as well as cumbersome and time-consuming programming. Our System on Mobile Devices (SyD) middleware, on the other hand, has a modular architecture that makes such application development very systematic and streamlined. The architecture s ...

Keywords: SyD coordination bonds, application-level QoS, atomic transactions, mobile servers, object and web service coordination

8 Tools and approaches for developing data-intensive Web applications: a survey

Piero Fraternali

September 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 3

Publisher: ACM Press

Full text available: pdf(524.80 KB) Additional Information: full citation, abstract, references, citings, index terms

The exponential growth and capillar diffusion of the Web are nurturing a novel generation of applications, characterized by a direct business-to-customer relationship. The development of such applications is a hybrid between traditional IS development and Hypermedia authoring, and challenges the existing tools and approaches for software production. This paper investigates the current situation of Web development tools, both in the commercial and research fields, by identifying and characte ...

Keywords: HTML, Intranet, WWW, application, development

9 Track 8: pervasive computing: Contextual information management using contract: based workflow

V. K. Murthy, E. V. Krishnamurthy

May 2005 **Proceedings of the 2nd conference on Computing frontiers CF '05**

Publisher: ACM Press

Full text available: pdf(290.56 KB) Additional Information: full citation, abstract, references, index terms

In the Ambient Intelligent Computing Environment (AmI) consisting of peers (clients, servers or agents or other intelligent devices), context-awareness plays an important role to offer intelligent services for various applications, e.g., medical services, robotics, travel planning, security monitoring, and multi-player gaming. Accordingly, context management turns out to be an important issue in manipulating, acquiring information and reacting to the situation. In this paper, we describe a contr ...

Keywords: agents, ambient intelligent computing environment (AmI), chemical-reactivity properties, contextual management, contract-based workflow, intention - context-action protocol

10 Models: Process inheritance and instance modification

Guangxin Yang
November 2003 **Proceedings of the 2003 international ACM SIGGROUP conference on Supporting group work GROUP '03**
Publisher: ACM Press

Full text available: pdf(376.03 KB) Additional Information: full citation, abstract, references, citings, index terms

Process technologies play an increasingly important role as the world is being digitalized in nearly every corner. The major obstacles to their massive deployment include reusability and adaptivity. This paper addresses the two crucial problems with one single solution: process inheritance. We discuss what process inheritance is, what mechanisms are needed to support it, and how it can be used to handle exceptions effectively. The ideas and mechanisms are implemented in the runtime system of a p ...

Keywords: dynamic modification, inheritance, process language

11 Report from the NSF workshop on workflow and process automation in information systems

Amit Sheth, Dimitrios Georgakopoulos, Stef M. M. Joosten, Marek Rusinkiewicz, Walt Scacchi, Jack Wileden, Alexander L. Wolf
December 1996 **ACM SIGMOD Record**, Volume 25 Issue 4
Publisher: ACM Press
Full text available: pdf(1.31 MB) Additional Information: full citation, abstract, citings, index terms

An interdisciplinary research community needs to address challenging issues raised by applying workflow management technology in information systems. This conclusion results from the NSF workshop on Workflow and Process Automation in Information Systems which was held at the State Botanical Garden of Georgia during May 8-10, 1996. The workshop brought together active researchers and practitioners from several communities, with significant representation from database and distributed systems ...

12 Report from the NSF workshop on workflow and process automation in information systems

Amit Sheth, Dimitrios Georgakopoulos, Stef M. M. Joosten, Marek Rusinkiewicz, Walt Scacchi, Jack Wileden, Alexander L. Wolf
January 1997 **ACM SIGSOFT Software Engineering Notes**, Volume 22 Issue 1
Publisher: ACM Press
Full text available: pdf(1.24 MB) Additional Information: full citation, abstract, citings, index terms

An interdisciplinary research community needs to address challenging issues raised by applying workflow management technology in information systems. This conclusion results from the NSF workshop on Workflow and Process Automation in Information Systems which was held at the State Botanical Garden of Georgia during May 8-10, 1996. The workshop brought together active researchers and practitioners from several communities, with significant representation from database and distributed systems, sof ...

13 The specification and enforcement of authorization constraints in workflow management systems

Elisa Bertino, Elena Ferrari, Vijay Atluri
February 1999 **ACM Transactions on Information and System Security (TISSEC)**, Volume 2 Issue 1
Publisher: ACM Press

Full text available: pdf(374.02 KB) Additional Information: full citation, abstract, references, citings, index terms, review

In recent years, workflow management systems (WFMSs) have gained popularity in both research and commercial sectors. WFMSs are used to coordinate and streamline business processes. Very large WFMSs are often used in organizations with users in the range of several thousands and process instances in the range of tens and thousands. To simplify the complexity of security administration, it is common practice in many businesses to allocate a role for each activity in the process and then assig ...

Keywords: access control, authorization constraints, role and user planning

14 Beneath the surface of organizational processes: a social representation framework for business process redesign
Gary Katzenstein, F. Javier Lerch
October 2000 **ACM Transactions on Information Systems (TOIS)**, Volume 18 Issue 4
Publisher: ACM Press

Full text available: pdf(2.02 MB) Additional Information: full citation, abstract, references, citings, index terms, review

This paper raises the question, "What is an effective representation framework for organizational process design?" By combining our knowledge of existing process models with data from a field study, the paper develops criteria for an effective process representation. Using these criteria and the case study, the paper integrates the process redesign and information system literatures to develop a representation framework that captures a process' social context. The paper argues t ...

Keywords: business process redesign, organizational change, process representation

15 Modeling methodology b: XML-based modeling and simulation: web service technologies and their synergy with simulation
Senthilanand Chandrasekaran, Gregory Silver, John A. Miller, Jorge Cardoso, Amit P. Sheth
December 2002 **Proceedings of the 34th conference on Winter simulation: exploring new frontiers WSC '02**
Publisher: Winter Simulation Conference
Full text available: pdf(186.90 KB) Additional Information: full citation, abstract, references

The World Wide Web has had an huge influence on the computing field in general as well as simulation in particular (e.g., Web-Based Simulation). A new wave of development based upon XML has started. Two of the most interesting aspects of this development are the Semantic Web and Web Services. This paper examines the synergy between Web service technology and simulation. In one direction, Web service processes can be simulated for the purpose of correcting/improving the design. ...

16 Bioinformatics (BIO): A complex biological database querying method
Jake Yue Chen, John V. Carlis, Ning Gao
March 2005 **Proceedings of the 2005 ACM symposium on Applied computing SAC '05**
Publisher: ACM Press
Full text available: pdf(226.08 KB) Additional Information: full citation, abstract, references

Many biological information systems rely on relational database management systems

(RDBMS) to manage high-throughput biological data. While keeping these data well archived, organized, and integrated in a common repository is still a challenging task, performing complex queries, i.e., explorative and abstract *ad hoc* user questions in biology, is an even formidable task often substituted by writing complicated software programs. In this work, we propose a "complex query modeling" method to ...

Keywords: complex queries, database management system (DBMS), query modeling

17 Lineage retrieval for scientific data processing: a survey

Rajendra Bose, James Frew
March 2005 **ACM Computing Surveys (CSUR)**, Volume 37 Issue 1
Publisher: ACM Press

Full text available: pdf(728.75 KB) Additional Information: full citation, abstract, references, citings, index terms

Scientific research relies as much on the dissemination and exchange of data sets as on the publication of conclusions. Accurately tracking the lineage (origin and subsequent processing history) of scientific data sets is thus imperative for the complete documentation of scientific work. Researchers are effectively prevented from determining, preserving, or providing the lineage of the computational data products they use and create, however, because of the lack of a definitive model for lineage ...

Keywords: Data lineage, audit, data provenance, scientific data, scientific workflow

18 Web application design: Exception handling in workflow-driven Web applications

Marco Brambilla, Stefano Ceri, Sara Comai, Christina Tziviskou
May 2005 **Proceedings of the 14th international conference on World Wide Web WWW '05**
Publisher: ACM Press
Full text available: pdf(259.54 KB) Additional Information: full citation, abstract, references, index terms

As the Web becomes a platform for implementing B2B applications, the need arises of Web conceptual models for describing Web oriented workflow applications implementing business processes. In this context, new problems about process correctness arise, due to the loose control of Web applications upon the behavior of their Web clients. Indeed, incoherent user's behavior can lead to inconsistent processes.This paper presents a high level approach to the management of exceptions that occur during t ...

Keywords: Web applications, exceptions, failure, navigation behavior, workflow

19 Automated process support for organizational and personal processes

Kevin Gary, Tim Lindquist, Harry Koehnemann, Ly Sauer
November 1997 **Proceedings of the international ACM SIGGROUP conference on Supporting group work: the integration challenge GROUP '97**
Publisher: ACM Press
Full text available: pdf(1.22 MB) Additional Information: full citation, references, index terms

Keywords: components, personal process, workflow

20 A specification language for the WIDE workflow model

Daniel K. C. Chan, Jochem Vonk, Gabriel Sánchez, Paul W. P. J. Grefen, Peter M. G. Apers

February 1998 **Proceedings of the 1998 ACM symposium on Applied Computing SAC '98**
Publisher: ACM Press
Full text available: pdf(367.21 KB) Additional Information: full citation, references, citings, index terms

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Relevance scale

21 A framework for formalizing inconsistencies and deviations in human-centered systems

Gianpaolo Cugola, Elisabetta Di Nitto, Alfonso Fuggetta, Carlo Ghezzi

July 1996 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 5 Issue 3

Publisher: ACM Press

Full text available: pdf(464.14 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Most modern business activities are carried out by a combination of computerized tools and human agents. Typical examples are engineering design activities, office procedures, and banking systems. All these human-centered systems are characterized by the interaction among people, and between people and computerized tools. This interaction defines a process, whose effectiveness is essential to ensure the quality of the delivered products and/or services. To support these sys ...

Keywords: business processes, deviation, formal model, human-centered systems, inconsistency, software processes

22 A workflow data distribution strategy for scalable workflow management systems

Hans Schuster, Petra Heinl

April 1997 **Proceedings of the 1997 ACM symposium on Applied computing SAC '97**

Publisher: ACM Press

Full text available: pdf(363.12 KB) Additional Information: full citation, references, citings, index terms

Keywords: data distribution, scalability, workflow

23 Models for supporting the redesign of organizational work

Eric S. K. Yu

August 1995 **Proceedings of conference on Organizational computing systems COCS '95**

Publisher: ACM Press

Full text available: pdf(1.20 MB) Additional Information: full citation, abstract, references, citings, index terms

Many types of models have been proposed for supporting organizational work. In this paper, we consider models that are used for supporting the redesign of organizational work. These models are used to help discover opportunities for improvements in organizations, introducing information technologies where appropriate. To support the redesign of organizational work, models are needed for describing work configurations, and for identifying issues, exploring alternatives, and ...

24 Session 4: Workflow performance and scalability analysis using the layered queuing modeling methodology

Kwang-Hoon Kim, Clarence A. Ellis

September 2001 **Proceedings of the 2001 International ACM SIGGROUP Conference on Supporting Group Work GROUP '01**

Publisher: ACM Press

Full text available: pdf(361.96 KB) Additional Information: full citation, abstract, references, citings, index terms

The design and implementation of a workflow management system is typically a large and complex task. Decisions need to be made about the hardware and software platforms, the data structures, the algorithms, and network interconnection of various modules utilized by various users and administrators. These decisions are further complicated by requirements such as flexibility, robustness, modifiability, availability, performance, and usability. As the size of workflow systems increases, organizatio ...

Keywords: architectural framework, architectural performance analysis, architectural quality attribute, hardware contention model, method of layer (MOL), performance, performance analytic model, scalability, software contention model, taxonomy of workflow architectures

25 Access control mechanisms for inter-organizational workflow

Myong H. Kang, Joon S. Park, Judith N. Froscher

May 2001 **Proceedings of the sixth ACM symposium on Access control models and technologies SACMAT '01**

Publisher: ACM Press

Full text available: pdf(253.16 KB) Additional Information: full citation, abstract, references, citings, index terms

As more businesses engage in globalization, inter-organizational collaborative computing grows in importance. Since we cannot expect homogeneous computing environments in participating organizations, heterogeneity and Internet-based technology are prevalent in inter-organizational collaborative computing environments. One technology that provides solutions for data sharing and work coordination at the global level is inter-organizational workflow. In this paper, we investigate the access co ...

Keywords: access control, enterprise, organizational security, security, workflow

26 FlowBack: providing backward recovery for workflow management systems

Bartek Kiepuszewski, Ralf Muhlberger, Maria E. Orlowska

June 1998 **ACM SIGMOD Record , Proceedings of the 1998 ACM SIGMOD international conference on Management of data SIGMOD '98**, Volume 27 Issue 2

Publisher: ACM Press

Full text available: pdf(384.30 KB) Additional Information: full citation, abstract, references, citings, index terms

The Distributed Systems Technology Centre (DSTC) framework for workflow specification, verification and management captures workflows transaction-like behavior for long lasting processes. FlowBack is an advanced prototype functionally enhancing an existing workflow management system by providing process backward recovery. It is based on extensive theoretical research ([3],[4],[5],[6],[8],[9]), and its architecture and construction assumptions are product independent. FlowBack clearly demons ...

27 Subsystem design guidelines for extensible general-purpose software

Paul Grefen, Roel Wieringa
November 1998 **Proceedings of the third international workshop on Software architecture ISAW '98**
Publisher: ACM Press
Full text available: pdf(552.02 KB) Additional Information: full citation, references, index terms

Keywords: architecture design, general-purpose software, subsystem design

28 Report on the eighth ACM SIGOPS European workshop

Jean Bacon
January 1999 **ACM SIGOPS Operating Systems Review**, Volume 33 Issue 1
Publisher: ACM Press
Full text available: pdf(988.38 KB) Additional Information: full citation, index terms

29 Access control model II: Supporting conditional delegation in secure workflow management systems

Vijayalakshmi Atluri, Janice Warner
June 2005 **Proceedings of the tenth ACM symposium on Access control models and technologies SACMAT '05**
Publisher: ACM Press
Full text available: pdf(255.50 KB) Additional Information: full citation, abstract, references, citings, index terms

Workflows model and control the execution of business processes in an organization. A workflow typically comprises of a set of coordinated activities, known as tasks. Typically, organizations establish a set of security policies, that regulate how the business process and resources should be managed. While a simple policy may specify which user (or role) can be assigned to execute a task, a complex policy may specify authorization constraints, such as *separation of duties*. Users may *de* ...

***Keywords**: constraints, delegation, workflow*

30 Knowledge management for best practices

Daniel E. O'Leary, Peter Selfridge
November 2000 **Communications of the ACM**
Publisher: ACM Press
Full text available: pdf(794.28 KB) Additional Information: full citation, references, citings, index terms

31 Knowledge management for best practices

Daniel E. O'Leary, Peter Selfridge

December 1999 **intelligence**, Volume 10 Issue 4
Publisher: ACM Press
Full text available: pdf(657.49 KB) html(47.48 KB) Additional Information: full citation, references, index terms

32 Business process reengineering: emergence of a new research field
Thomas Barothy, Markus Peterhans, Kurt Bauknecht
August 1995 **ACM SIGOIS Bulletin**, Volume 16 Issue 1
Publisher: ACM Press
Full text available: pdf(832.97 KB) Additional Information: full citation, abstract, index terms

This paper provides an overview of published articles on Business Process Reengineering (BPR). Therefore it reports on an extensive literature review which identified BPR articles published in respected MIS outlets and/or written by three key proponents in the field. Besides manual examination of leading MIS journals and proceedings, the study incorporated a query in the ABI Inform Global reference database locating 552 items. The resulting 17 BPR articles are analyzed according to research appr ...

33 WWAC: WinWin abstraction based decision coordination
Prasanta Bose, Xiaoqing Zhou
March 1999 **ACM SIGSOFT Software Engineering Notes , Proceedings of the international joint conference on Work activities coordination and collaboration WACC '99**, Volume 24 Issue 2
Publisher: ACM Press
Full text available: pdf(1.27 MB) Additional Information: full citation, abstract, references, citings, index terms

Distributed engineering of complex software artifacts require collaboration of multiple *independent* stakeholders over extended periods of time. The independent decision changes, task executions, resource usages and other activities of the stakeholders may interact causing problems where mutual dependencies exist due to global activity ordering, resource sharing, product integrity, and other global constraints. Stakeholder coordination is required to ensure satisfaction of the global const ...

Keywords: change management, collaborative design, decision coordination

34 A three-faceted view of information systems
Giorgio De Michelis, Eric Dubois, Matthias Jarke, Florian Matthes, John Mylopoulos, Joachim W. Schmidt, Carson Woo, Eric Yu
December 1998 **Communications of the ACM**, Volume 41 Issue 12
Publisher: ACM Press
Full text available: pdf(423.05 KB) Additional Information: full citation, references, citings, index terms, review

35 Dynamic change within workflow systems
Clarence Ellis, Karim Keddara, Grzegorz Rozenberg
August 1995 **Proceedings of conference on Organizational computing systems COCS '95**
Publisher: ACM Press
Full text available: pdf(1.01 MB) Additional Information: full citation, abstract, references, citings, index terms

Dynamic change is a large and pervasive unsolved problem which surfaces within office systems as well as within software engineering, manufacturing, and numerous other domains. Procedural changes, performed in an ad hoc manner, can cause inefficiencies, inconsistencies, and catastrophic breakdowns within offices. This paper is concerned with dynamic change to procedures in the context of workflow systems. How can we make workflow systems more flexible and open? We believe that part of the a ...

36 Many groupware products have recently been A Workflow Architecture to Support Dynamic Change

Clarence (Skip) Ellis
December 1994 **ACM SIGOIS Bulletin**, Volume 15 Issue 2
Publisher: ACM Press
Full text available: pdf(504.10 KB) Additional Information: full citation

37 Papers: ACL and protocols: Modeling exceptions via commitment protocols

Ashok U. Mallya, Munindar P. Singh
July 2005 **Proceedings of the fourth international joint conference on Autonomous agents and multiagent systems AAMAS '05**
Publisher: ACM Press
Full text available: pdf(336.93 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper develops a model for exceptions and an approach for incorporating them in commitment protocols among autonomous agents. Modeling and handling exceptions is critical for successful applications of multiagent systems. Protocols help build multiagent systems, but traditional representations (such as finite state machines or Petri nets) inadequately model complex interactions and exceptions therein. Emerging commitment-based representations are promising, because they declaratively reflec ...

Keywords: agents, commitments, exception handling, multiagent systems

38 Coordination aspects in a spatial group decision support collaborative system

Sergio P. J. Medeiros, Jane M. de Souza, Julia Celia M. Strauch, Gustavo R. B. Pinto
March 2001 **Proceedings of the 2001 ACM symposium on Applied computing SAC '01**
Publisher: ACM Press
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Keywords: DSS, EMS, GIS, coordination, spatial decision support system

39 Session2: Beyond workflow management: product-driven case handling

W. M. P. van der Aalst, P. J. S. Berens
September 2001 **Proceedings of the 2001 International ACM SIGGROUP Conference on Supporting Group Work GROUP '01**
Publisher: ACM Press
Full text available: pdf(287.45 KB) Additional Information: full citation, abstract, references, citings, index terms

In the last decade, workflow technology has become one of the building blocks for realizing enterprise information systems. Unfortunately, the application of contemporary workflow management systems is limited to well-defined and well-controlled environments. In practice, workflow technology often fails because of limited flexibility.

We advocate a paradigm shift to overcome this problem: Workflows should not be driven by pre-specified control-flows but by the products they generate. This paper ...

Keywords: FLOWer, case handling, product-driven design, workflow management, workflow management systems

40 B2B e-commerce and enterprise integration: The development and evaluation of exception handling mechanisms for order fulfillment process based on BPEL4WS

Fu-ren Lin, Hsiang-chin Chang

August 2005 **Proceedings of the 7th international conference on Electronic commerce ICEC '05**

Publisher: ACM Press

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The advance of Internet technology fosters the order fulfillment process in a supply chain across heterogeneous information systems. In order to monitor states between partners in the process, this study develops exception handling mechanisms based on Web service stack. After detecting exceptions, the first step is to make use of the fault and compensation handlers provided by the BPEL4WS (Business Process Execution Language for Web Services) specification to roll back planned or even executed b ...

Keywords: BPEL4WS, Web service, exception handling, resource management, supply chain management

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